

Title (en)

Aluminum-zinc alloy composition comprising spangle for hot-dipping steel product, method and product obtainable thereof

Title (de)

Aluminium-Zinklegierungs-Zusammensetzung mit Paillette zur Schmelztauchbeschichtung von Stahlprodukten sowie zugehöriges Verfahren und hierdurch erhaltenes Produkt

Title (fr)

Composition d'un alliage à base d'aluminium et de zinc comprenant des paillettes pour galvaniser des pièces en acier, méthode et produit ainsi obtenu

Publication

**EP 1428898 A1 20040616 (EN)**

Application

**EP 02027947 A 20021213**

Priority

EP 02027947 A 20021213

Abstract (en)

A method of coating of steel products such as plate and sheet using an aluminum-zinc coating alloy includes modifying the coating bath with a particulate compound constituent in effective amounts to control the spangle facet size of the coated product, improve tension bend rust stain performance, improve coated surface appearance when brushed, and coated product paintability. Constituents include borides such as titanium boride and aluminum borides. The method produces a coated steel product that does not require temper rolling for painting.

IPC 1-7

**C23C 2/06**; **C23C 2/12**

IPC 8 full level

**C23C 2/06** (2006.01); **C23C 2/12** (2006.01)

CPC (source: EP)

**C23C 2/06** (2013.01); **C23C 2/12** (2013.01)

Citation (search report)

- [X] WO 0127343 A1 20010419 - BETHLEHEM STEEL CORP [US]
- [X] PATENT ABSTRACTS OF JAPAN vol. 014, no. 377 (C - 0748) 15 August 1990 (1990-08-15)

Cited by

AU2006266187B2; JP2018104762A; US7413769B2; WO2007005333A3

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